## Amendment to the claims

This listing of claims replaces all prior versions, and listings, of claims in the application.

## Listing of claims:

1. (Currently amended) A module for purifying a fluid, in particular for purifying water, of the kind including comprising a cylindrical container (30; 30!) provided at a first of its axial ends with fluid inlet and outlet orifices  $(33_1-33_3; 33'_1-33'_3)$  communicating with the interior of the module, in which are housed pretreatment means (49; 49') for carrying out a first operation of purifying the fluid and treatment means (51; -51!) for carrying out a second operation of purifying the fluid after the latter has been treated by the pretreatment means (49; 49'), which module is characterized in that the wherein said container (30; 30!) is monolithic to form a disposable module (14;14') and the interior thereof is divided by separator means (38-40; 38'-40') into an external cylindrical space (36; internal cylindrical space (35; -35') <del>36')</del> and an communicating with each other via one or more passages (37; 37!) in the vicinity of the second axial end of the container (30; 30'), the pretreatment means (49; 49') are pretreatment means known in the art, the treatment means include a cartridge (51; 51') known in the art of the kind

including one or more selectively permeable membranes (54; 54') for dividing, by virtue of permeation through the membrane or membranes due to the action of a pressure gradient, the flow of fluid that has undergone the first purification operation and caused to flow tangentially to membrane or membranes into flow of permeate the а consisting of purified fluid that has passed through the membrane and therefore undergone two purification operations and a flow of retentate consisting of residual passed through the membrane fluid that has not membranes, the pretreatment means (49; 49') and cartridge (51; 51') are housed in the external cylindrical space (36; 36!) and the internal cylindrical space (35; 35'), respectively, the external cylindrical space (36; 36') communicates, at the same end as the first axial end of the container (30; 30'), with a first orifice  $(33_1; 33'_1)$ for feeding fluid to be purified to the pretreatment means (49; 49!), and the internal cylindrical space (35; 35!)communicates separately, at the same end as the first axial end of the container (30; 30!), with a second orifice (332; $33'_2$ ) for evacuating from the module (14; 14') the flow of permeate and with a third orifice  $(33_3; 33!_3)$  for evacuating from the module (14; -14') the flow of retentate, wherein said reverse osmosis cartridge comprises (i) a cylindrical

enclosure and, concentric therewith, a hollow, perforated, central tube, said central tube sharing the axis of said cylindrical container with said external cylindrical space and said internal cylindrical space, (ii) one or more selectively permeable reverse osmosis treatment membranes between said cylindrical enclosure and said central tube and communicating with said central tube for collection by the latter of the flow of permeate and with the exterior of the reverse osmosis cartridge via the annular faces thereof between the cylindrical enclosure and said central tube at each axial end of said cylindrical enclosure, respectively to feed said reverse osmosis cartridge with fluid treated by said pretreatment means and for the outflow of retentate.

- 2. (Currently amended) A module according to claim 1, characterized in that the wherein said cartridge is a reverse osmosis, nanofiltration or ultrafiltration cartridge.
  - 3. (Cancelled)
- 4. (Currently amended) A module according to claim 3

  1, characterized in that further comprising means (57; 57')

  for providing a sealed connection between the separator means and the cylindrical enclosure (52; 52') of the reverse osmosis cartridge (51; 51'), said means being are

attached to the cylindrical enclosure (52; 52!) and extend extending around the cylindrical enclosure (52; 52!).

- 5. (Currently amended) A module according to any of claims 1 to 4 claim 1, characterized in that the wherein said pretreatment means are chosen from the group comprising consisting of activated charcoal, polyphosphates and frontal filtration elements.
- 7. (Currently amended) A module according to claim 6, characterized in that the wherein said connectors  $(32_1-32_3)$ ;  $32'_1-32'_3$ ) extend globally perpendicularly to the axis (34); of the cylindrical wall (31); (31) of the container.
- 8. (Currently amended) A module according to claim 6 or claim 7, characterized in that the wherein said separator means include a cylindrical wall (38; 38'), a

cylindrical skirt (39; 39!), and a ring (40; 40!) respectively projecting from the internal face of the head (20; 20!) and the internal face of the bottom (23, 23!), the skirt (39; 39!) and the ring (40; 40!) providing continuity of separation from a corresponding longitudinal end of the cylindrical wall (38; 38!) to the head (20; 20!) and to the bottom (23; 23!), respectively.

- 9. (Currently amended) A module according to claim 8, characterized in that the wherein said head (20; 20!) is fixed to the cylindrical wall (31; 31!) of the container (30; 30!) by gluing, rotation welding, ultrasound welding or fusion welding their annular edges.
- 10. (Currently amended) A module according to claim 8, or claim 9, characterized in that the wherein said cylindrical skirt (39; 39!) of the head (20; 20!) and the axial end of the cylindrical wall (38; 38!) of the separator means at the same end as the first axial end of the container are either fixed together by gluing, rotation welding, ultrasound welding or fusion welding their annular edges or housed concentrically with one inside the other with a seal (75) between them.
- 11. (Currently amended) A module according to claim 10, characterized in that the wherein said skirt (39; 39') of the head (20; 20') and the cylindrical wall (38; 38') of

the separator means each have an annular recess (76) forming with the opposite recess (77) an annular housing for the seal (75).

- 12. (Currently amended) A module according to any of claims 8 to 11, characterized in that the claim 8, wherein said ring (40') of the bottom and the axial end of the cylindrical wall (38') of the separator means at the same end as the second axial end of the container are housed concentrically one inside the other.
- 13. (Currently amended) A module according to any of claims 8 to 12, characterized in that the claim 8, wherein said ring (40; 40') of the bottom is crenellated to form a plurality of passages (37; 37') allowing the external cylindrical space (36; 36') and the internal cylindrical space (35; 35') to communicate with each other.
- 14. (Original) A module according to claim 13, characterized in that the bottom (23; 23') of the container includes locating means (46; 79) for holding the cylindrical wall (38; 38') of the separator means at an axial distance from the internal face (67; 67') of the bottom to allow fluid to flow from the external cylindrical space (36; 36') to the internal cylindrical space (35; 35') via the crenellations (37; 37') of the crenellated ring (40; 40').

- 15. (Currently amended) A module according to claim 14, characterized in that the wherein said crenellated ring (40) includes recesses (46) between the crenellations (37) and forming axial abutments serving as locating means for the cylindrical wall (38) of the separator means.
- 16. (Currently amended) A module according to claim  $\frac{14}{15}$ , characterized in that the wherein said locating means take the form of patterns  $\frac{(79)}{15}$  projecting from the internal face  $\frac{(67)}{15}$  of the bottom of the container.
- 17. (Currently amended) A module according to any of claims 8 to 16, characterized in that the claim 8, wherein the perimeter of the cylindrical wall (38; 38') of the separator means has in the vicinity of each axial end of the cylindrical wall centering fingers (45; 45') extending radially as far as the cylindrical wall (31; 31') of the container (30; 30') and serving to place the axis of the cylindrical wall on the axis (34; 34') of the container.
- 18. (Currently amended) A module according to any of claims 2 to 17, characterized in that the claim 6, wherein said head (20; 20') and the bottom (23; 23') of the container include nesting type retaining means (60, 61; 60', 61') for the cartridge.
- 19. (Currently amended) A module according to claim
  18, characterized in that the wherein said head (20; 20!)

and the bottom (23; 23') each include a bush (60, 61; 60'), 61' housing a respective axial end portion of the central tube (53; 53') and one or more seals (62; 62') are disposed between the latter and the central bush (60; 60') of the head (20; 20'), the latter bush (60; 60') communicating with the second orifice  $(33_2; 33'_2)$ .

- 20. (Currently amended) A module according to claim 19, characterized in that the wherein said seal or each seal (62; 62') is housed in a groove (63; 63') formed in the central tube (53; 53').
- 21. (Currently amended) A module according to claim 19 or claim 20, characterized in that further comprising a central truncated cone (81) for positioning the cartridge (51'), operative inside the central tube (53') of the latter, and projecting projects from the internal face (67') of the bottom (23') of the container, concentrically with the bush (61') of the bottom and over a length greater than that of the bush.
- 22. (Currently amended) A module according to any of claims 8 to 21, characterized in that there is claim 8, further comprising a perforated or porous disk (50; 50') in the vicinity of each axial end of the container (30; 30') and between the cylindrical walls (31, 38; 31', 38') of the latter to retain the pretreatment means (49; 49') in the

external cylindrical space (36; 36') whilst allowing the fluid to be purified to pass.

23. (Currently amended) A module according to any of claims 2 to 22, characterized in that the claim 2, wherein said central tube (53; 53') is closed at the same end as the annular face (55; 55') of the reverse osmosis cartridge (51; 51') through which the fluid enters the cartridge.